## (to be filed)psd9010.seq.txt

45

190

270

320

205

285

140

220

235

315

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250

## Sequence Listing <110> Sode, Koji <120> Glucose Dehydrogenase <140> PCT/JP03/08418 <141> 2002-07-02 <150> JP 2003-71760 <151> 2003-03-17 <150> JP 2002-196177 <151> 2002-07-04 <160> 19 <210> 1 <211> 454 <212> PRT <213> Acinetobacter calcoaceticus **〈400〉 1** Asp Val Pro Leu Thr Pro Ser Gln Phe Ala Lys Ala Lys Ser Glu Asn Phe Asp Lys Lys Val lie Leu Ser Asn Leu Asn Lys Pro His Ala Leu 25 Leu Trp Gly Pro Asp Asn Gln Ile Trp Leu Thr Glu Arg Ala Thr Gly 40 Lys lle Leu Arg Val Asn Pro Glu Ser Gly Ser Val Lys Thr Val Phe 55 Gin Val Pro Giu ile Val Asn Asp Ala Asp Giy Gin Asn Giy Leu Leu 70 75 Gly Phe Ala Phe His Pro Asp Phe Lys Asn Asn Pro Tyr lle'Tyr lle 90 Ser Gly Thr Phe Lys Asn Pro Lys Ser Thr Asp Lys Glu Leu Pro Asn 105 Gin Thr lie lie Arg Arg Tyr Thr Tyr Asn Lys Ser Thr Asp Thr Leu 120 Glu Lys Pro Val Asp Leu Leu Ala Gly Leu Pro Ser Ser Lys Asp His 135 Gin Ser Gly Arg Leu Vai lie Gly Pro Asp Gin Lys lie Tyr Tyr Thr 150 155 lle Gly Asp Gln Gly Arg Asn Gln Leu Ala Tyr Leu Phe Leu Pro Asn 165 170 Gln Ala Gln His Thr Pro Thr Gln Glu Leu Asn Gly Lys Asp Tyr 185 His Thr Tyr Met Gly Lys Val Leu Arg Leu Asn Leu Asp Gly Ser lle

200

215

295

230

310

245

260

Pro Lys Asp Asn Pro Ser Phe Asn Gly Val Val Ser His lle Tyr Thr

Leu Gly His Arg Asn Pro Gln Gly Leu Ala Phe Thr Pro Asn Gly Lys

Leu Leu Gin Ser Giu Gin Gly Pro Asn Ser Asp Asp Giu ile Asn Leu

lle Val Lys Gly Gly Asn Tyr Gly Trp Pro Asn Val Ala Gly Tyr Lys

Asp Asp Ser Gly Tyr Ala Tyr Ala Asn Tyr Ser Ala Ala Ala Asn Lys

Ser lle Lys Asp Leu Ala Gin Asn Gly Val Lys Val Ala Ala Gly Val

Pro Val Thr Lys Glu Ser Glu Trp Thr Gly Lys Asn Phe Val Pro Pro

280

265

195

275

290

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(to be filed)psd9010.seg.txt
Leu Lys Thr Leu Tyr Thr Val Gln Asp Thr Tyr Asn Tyr Asn Asp Pro
                325
                                    330
                                                        335
Thr Cys Gly Glu Met Thr Tyr lle Cys Trp Pro Thr Val Ala Pro Ser
                                345
Ser Ala Tyr Val Tyr Lys Gly Gly Lys Lys Ala lle Thr Gly Trp Glu
                            360
Asn Thr Leu Leu Val Pro Ser Leu Lys Arg Gly Va! !!e Phe Arg Ile
                        375
                                            380
Lys Leu Asp Pro Thr Tyr Ser Thr Thr Tyr Asp Asp Ala Val Pro Met
385
                    390
                                        395
Phe Lys Ser Asn Asn Arg Tyr Arg Asp Val IIe Ala Ser Pro Asp Gly
                405
                                    410
Asn Val Leu Tyr Val Leu Thr Asp Thr Ala Gly Asn Val Gln Lys Asp
                                425
Asp Gly Ser Val Thr Asn Thr Leu Glu Asn Pro Gly Ser Leu lle Lys
        435
                            440
                                                445
Phe Thr Tyr Lys Ala Lys
    450
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〈211〉 1612〈212〉 DNA 〈213〉 Acinetobacter calcoaceticus
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cataatacaa atcatataga gaactcgtac aaacccttta ttagaggttt aaaaattctc 120
ggaaaatttt gacaatttat aaggtggaca catgaataaa catttattgg ctaaaattgc 180
tttattaagc gctgttcagc tagttacact ctcagcattt gctgatgttc ctctaactcc 240
atctcaattt gctaaagcga aatcagagaa ctttgacaag aaagttattc tatctaatct 300
aaataagccg catgctttgt tatggggacc agataatcaa atttggttaa ctgagcgagc 360
aacaggtaag attctaagag ttaatccaga gtcgggtagt gtaaaaacag tttttcaggt 420
accagagatt gtcaatgatg ctgatgggca gaatggttta ttaggttttg ccttccatcc 480
tgattttaaa aataateett atatetatat tteaggtaea tttaaaaate egaaatetae 540
agataaagaa ttaccgaacc aaacgattat tcgtcgttat acctataata aatcaacaga 600
tacgctcgag aagccagtcg atttattagc aggattacct tcatcaaaag accatcagtc 660
aggtcgtctt gtcattgggc cagatcaaaa gatttattat acgattggtg accaagggcg 720
taaccagctt gcttattigt tcttgccaaa tcaagcacaa catacgccaa ctcaacaaga 780
actgaatggt aaagactatc acacctatat gggtaaagta ctacgcttaa atcttgatgg 840
aagtattcca aaggataatc caagttttaa cggggtggtt agccatattt atacacttgg 900
acatcgtaat ccgcagggct tagcattcac tccaaatggt aaattattgc agtctgaaca 960
aggcccaaac tctgacgatg aaattaacct cattgtcaaa ggtggcaatt atggttggcc 1020
gaatgtagca ggttataaag atgatagtgg ctatgcttat gcaaattatt cagcagcagc 1080
caataagtca attaaggatt tagctcaaaa tggagtaaaa gtagccgcag gggtccctgt 1140
gacgaaagaa totgaatgga otggtaaaaa otttgtooca ocattaaaaa otttatatao 1200
cgttcaagat acctacaact ataacgatcc aacttgtgga gagatgacct acatttgctg 1260
gccaacagtt gcaccgtcat ctgcctatgt ctataagggc ggtaaaaaag caattactgg 1320
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agatccaact tatagcacta cttatgatga cgctgtaccg atgtttaaga gcaacaaccg 1440
ttatcgtgat gtgattgcaa gtccagatgg gaatgtctta tatgtattaa ctgatactgc 1500
cggaaatgtc caaaaagatg atggctcagt aacaaataca ttagaaaacc caggatctct 1560
cattaagttc acctataagg ctaagtaata cagtcgcatt aaaaaaccga tc
<210> 3
<211> 8
<212> PRT
<213> Acinetobacter calcoaceticus
〈220〉
<221> UNSURE
<222> 4
<223> Xaa is any amino acid residue
〈220〉
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(to be filed)psd9010.seg.txt
<221> UNSURE
<222> 5
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Gly Arg Asn Xaa Xaa Ala Tyr Leu
\langle 210 \rangle 4
<211> 22
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<213> Artificial Sequence
<220>
<223> primer for point mutation
<400> 4
ataagcaagc gggttacgc cc 22
<210> 5
<211> 27
<212> DNA
<213> Artificial Sequence
<220>
<223 primer for point mutation
<400> 5
caaataagca agcccgttac gcccttg 27
<210> 6
<211> 21
<212> DNA
<213> Artificial Sequence
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<223> primer for point mutation
<400> 6
caaataagca gcctggttac g 21
<210> 7
<211> 27
<212> DNA
<213> Artificial Sequence
<220>
<223> primer for point mutation
<400> 7
gaacaaataa gcaccctggt tacgccc 27
<210> 8
<211> 26
<212> DNA
<213> Artificial Sequence
<220>
<223> primer for point mutation
<400> 8
cctgactgat gttcttttga tgaagg 26
<210> 9
<211> 27
<212> DNA
<213> Artificial Sequence
<220>
<223> primer for point mutation
<400> 9
catcttttg gacagttccg gcagtat 27
<210> 10
<211> 27
<212> DNA
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(to be filed)psd9010.seg.txt
<213> Artificial Sequence
〈220〉
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<400> 10
caaataagca agcaggttac gcccttg 27
〈210〉 11
<211> 27
<212> DNA
<213> Artificial Sequence
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<223> primer for point mutation
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caaataagca agaaagttac gcccttg 27
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<212> DNA
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<223> primer for point mutation
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caaataagca aggctgttac gcccttg 27
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<212> DNA
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<223> primer for point mutation
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caaataagca aggttgttac gcccttg 27
<210> 14
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<213> Artificial Sequence
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<223> primer for point mutation
<400> 14
caaataagca agatcgttac gcccttg 27
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<212> DNA
<213> Artificial Sequence
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<223> primer for point mutation
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caaataagca agttcgttac gcccttg 27
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<212> DNA
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<223> primer for point mutation
<400> 16
caaataagca agtttgttac gcccttg 27
<210> 17
<211> 27
<212> DNA
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## (to be filed)psd9010.seq.txt <213> Artificial Sequence <220> <223> primer for point mutation <400> 17 gaacaaataa gccatctggt tacgccc 27 **⟨210⟩ 18** <211> 27 <212> DNA <213> Artificial Sequence <220> <223> primer for point mutation **<400> 18** gaacaaataa gctttctggt tacgccc 27 <210> 19 <211> 27 <212> DNA <213> Artificial Sequence <220> <223> primer for point mutation <400> 19

gaacaaataa gcccactggt tacgccc 27

